LUMINA BC Series

Advanced Shading Optimisation

Integrated Shading Optimisation

Advanced Back Contact cell design ensures sustained output under partial shading by isolating low-current segments & redirecting power — reducing system losses.

Back Contact Architecture

N-type monocrystalline cells with rear contacts achieve up to 22.6% efficiency, reducing resistance & boosting current flow for higher energy yield per m².

All-Black Aesthetic

Seamless All-Black Aesthetic - clean, uniform finish with hidden busbars – built for premium installations.

Thermal Performance

Lower operating temperatures enhance long-term stability in hot climates.

Built-In Durability

Engineered for crack resistance, PID resistance & environmental stress.

565 - 585Wp

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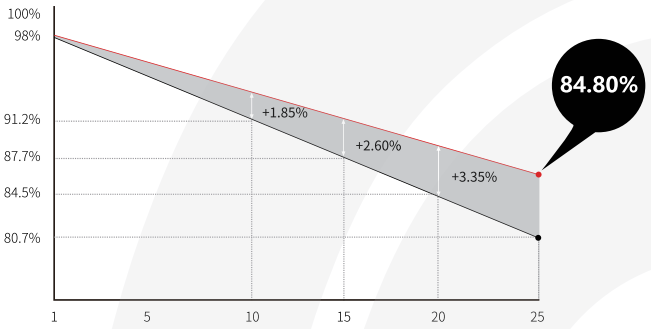
IEC 61215 | IEC 61730 i.V. | IEC TS 62941

Certificate Number : 31- 22717

22.6%	0~+5W	< 1.5%	0.4%	BC CELL ARCHITECTURE
MAX MODULE EFFICIENCY	POSITIVE POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	ANNUAL POWER DEGRADATION	SUPERIOR SHADING OPTIMISATION

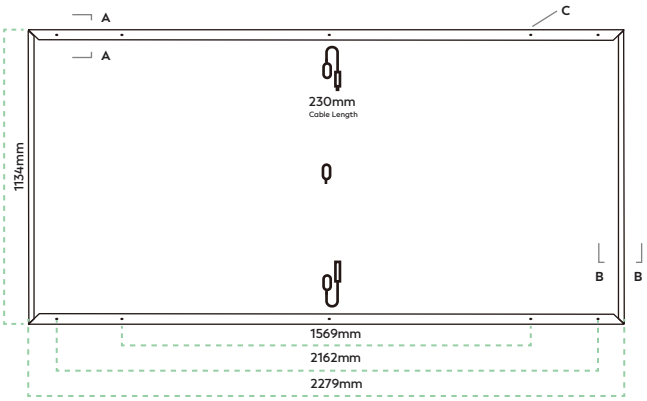
Additional Value

25 Year Power Warranty

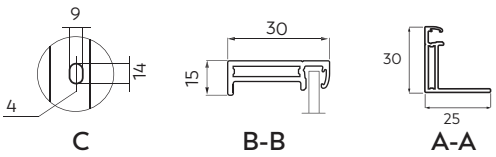


Mechanical Parameters

Cell Orientation	144 (6x24) cells
Junction Box	IP67, 3 diodes
Output Cable	230mm (MC4 compatible)
Glass	3.2mm high transmission tempered glass
Frame	Black Module Frame
Weight	26.74kg
Dimensions (mm)	2279 x 1134 x 30 mm



Tolerance:
Length: ± 2mm
Width: ± 2mm



Electrical Characteristics

Module Type	Testing Condition	Maximum Power	Open circuit voltage(V)	Short circuit current (A)	Voltage at Maximum power (V)	Current at Maximum Power (A)	Module Efficiency
565WP	STC	565	51.09	13,90	43,13	13.10	21.9%
570WP	STC	570	51.19	13,97	43,22	13.19	22.1%
575WP	STC	575	51.28	14,07	43,33	13.27	22.2%
580WP	STC	580	51.41	14,19	43,44	13.35	22.4%
585WP	STC	585	51.52	14,22	43,55	13.47	22.6%

Operating Parameters

Operational Temp	minus 40°C to 85°C
Power Output Tolerance	0-+ 3W
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	48°C

Temperature Ratings STC

Temperature Coefficient of isc	(+)0,048%/K
Temperature Coefficient of Voc	(-)0,270%/K
Temperature Coefficient of Pmax	(-)0,350%/K

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